

- 7 -

## CLAIMS:

1. A method of surveying drill holes comprising the steps of feeding a survey tool into a borehole on the end of a drill string as part of the hole drilling operation, activating the survey tool once drilling is completed, and taking position readings from the survey tool as the drill string is withdrawn from the hole.
2. A method as claimed in claim 1, wherein the survey tool is maintained in a sleeping mode while drilling is undertaken.
3. A method as claimed in either claim 1 or claim 2, wherein the survey tool is configured to sense the cessation of drilling to activate the survey tool once drilling is completed.
4. A method as claimed in any one of the preceding claims, wherein the position readings are taken from the survey tool as the withdrawal of the drill string is temporarily halted for the removal of each drill rod from the drill string.
5. An apparatus for surveying drill holes using a method incorporating the steps of feeding a survey tool into a borehole on the end of a drill string as part of the hole drilling operation, activating the survey tool once drilling is completed, and taking position readings from the survey tool as the drill string is withdrawn from the hole, wherein the survey tool includes an inertial survey package and a power source.
6. An apparatus as claimed in claim 5, wherein the survey tool also includes a data logger.
7. An apparatus as claimed in either claim 5 or claim 6, wherein the survey tool is mounted to the drill string by a damping system arranged to isolate the survey tool from vibrations and acceleration induced in the drill string.
8. An apparatus as claimed in any one of claims 5 to 7, wherein the inertial survey package is selected from the group comprising commercially known inertial survey packages, for superior characteristics of resistance to vibration and impact.
9. An apparatus as claimed in claim 8, wherein the inertial survey package is selected for superior resistance to vibration and impact when in a sleeping mode.